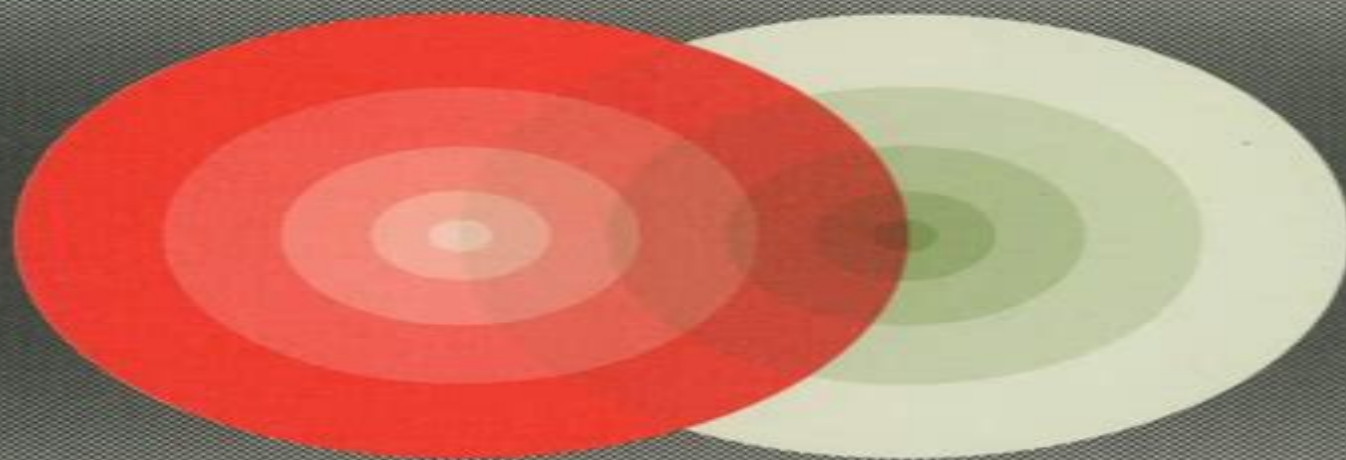


Finsler Geometry, Relativity and Gauge Theories

by
G. S. Asanov

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Fundamental Theories of Physics

Finsler Geometry Relativity And Gauge Theories

Ligia Munteanu, Stefania Donescu



Finsler Geometry Relativity And Gauge Theories:

Finsler Geometry, Relativity and Gauge Theories G.S. Asanov, 2012-12-06 The methods of differential geometry have been so completely merged nowadays with physical concepts that general relativity may well be considered to be a physical theory of the geometrical properties of space time The general relativity principles together with the recent development of Finsler geometry as a metric generalization of Riemannian geometry justify the attempt to systematize the basic techniques for extending general relativity on the basis of Finsler geometry It is this endeavour that forms the subject matter of the present book Our exposition reveals the remarkable fact that the Finslerian approach is automatically permeated with the idea of the unification of the geometrical space time picture with gauge field theory a circumstance that we try our best to elucidate in this book The book has been written in such a way that the reader acquainted with the methods of tensor calculus and linear algebra at the graduate level can use it as a manual of Finslerian techniques orientable to applications in several fields The problems attached to the chapters are also intended to serve this purpose This notwithstanding whenever we touch upon the Finslerian refinement or generalization of physical concepts we assume that the reader is acquainted with these concepts at least at the level of the standard textbooks to which we refer him or her [Handbook of Finsler geometry. 2 \(2003\)](#)

Peter L. Antonelli, 2003 There are several mathematical approaches to Finsler Geometry all of which are contained and expounded in this comprehensive Handbook The principal bundles pathway to state of the art Finsler Theory is here provided by M Matsumoto His is a cornerstone for this set of essays as are the articles of R Miron Lagrange Geometry and J Szilasi Spray and Finsler Geometry After studying either one of these the reader will be able to understand the included survey articles on complex manifolds holonomy sprays and KCC theory symplectic structures Legendre duality Hodge theory and Gauss Bonnet formulas Finslerian diffusion theory is presented by its founders P Antonelli and T Zastawniak To help with calculations and conceptualizations a CD ROM containing the software package FINSLER based on MAPLE is included with the book

An Introduction to Riemann-Finsler Geometry D. Bao, S.-S. Chern, Z. Shen, 2012-12-06 In Riemannian geometry measurements are made with both yardsticks and protractors These tools are represented by a family of inner products In Riemann Finsler geometry or Finsler geometry for short one is in principle equipped with only a family of Minkowski norms So yardsticks are assigned but protractors are not With such a limited tool kit it is natural to wonder just how much geometry one can uncover and describe It now appears that there is a reasonable answer Finsler geometry encompasses a solid repertoire of rigidity and comparison theorems most of them founded upon a fruitful analogue of the sectional curvature There is also a bewildering array of explicit examples illustrating many phenomena which admit only Finslerian interpretations This book focuses on the elementary but essential items among these results Much thought has gone into making the account a teachable one

Lagrange and Finsler Geometry P.L. Antonelli, R. Miron, 2013-03-09 The differential geometry of a regular Lagrangian is more involved than that of classical kinetic energy and consequently is far

from being Riemannian Nevertheless such geometries are playing an increasingly important role in a wide variety of problems in fields ranging from relativistic optics to ecology The present collection of papers will serve to bring the reader up to date on the most recent advances Subjects treated include higher order Lagrange geometry the recent theory of Lagrange manifolds electromagnetic theory and neurophysiology Audience This book is recommended as a supplementary text in graduate courses in differential geometry and its applications and will also be of interest to physicists and mathematical biologists

Handbook of Finsler geometry. 1 (2003) Peter L. Antonelli, 2003 There are several mathematical approaches to Finsler Geometry all of which are contained and expounded in this comprehensive Handbook The principal bundles pathway to state of the art Finsler Theory is here provided by M Matsumoto His is a cornerstone for this set of essays as are the articles of R Miron Lagrange Geometry and J Szilasi Spray and Finsler Geometry After studying either one of these the reader will be able to understand the included survey articles on complex manifolds holonomy sprays and KCC theory symplectic structures Legendre duality Hodge theory and Gauss Bonnet formulas Finslerian diffusion theory is presented by its founders P Antonelli and T Zastawniak To help with calculations and conceptualizations a CD ROM containing the software package FINSLER based on MAPLE is included with the book

Geometry of Pseudo-Finsler Submanifolds Aurel Bejancu, Hani Reda Farran, 2013-04-17 This book begins with a new approach to the geometry of pseudo Finsler manifolds It also discusses the geometry of pseudo Finsler manifolds and presents a comparison between the induced and the intrinsic Finsler connections The Cartan Berwald and Rund connections are all investigated Included also is the study of totally geodesic and other special submanifolds such as curves surfaces and hypersurfaces Audience The book will be of interest to researchers working on pseudo Finsler geometry in general and on pseudo Finsler submanifolds in particular

Finslerian Geometries P.L. Antonelli, 2012-12-06 The International Conference on Finsler and Lagrange Geometry and its Applications A Meeting of Minds took place August 13 20 1998 at the University of Alberta in Edmonton Canada The main objective of this meeting was to help acquaint North American geometers with the extensive modern literature on Finsler geometry and Lagrange geometry of the Japanese and European schools each with its own venerable history on the one hand and to communicate recent advances in stochastic theory and Hodge theory for Finsler manifolds by the younger North American school on the other The intent was to bring together practitioners of these schools of thought in a Canadian venue where there would be ample opportunity to exchange information and have cordial personal interactions The present set of refereed papers begins with the Pedagogical Section I where introductory and brief survey articles are presented one from the Japanese School and two from the European School Romania and Hungary These have been prepared for non experts with the intent of explaining basic points of view The Section III is the main body of work It is arranged in alphabetical order by author Section II gives a brief account of each of these contributions with a short reference list at the end More extensive references are given in the individual articles

Kinematical Theory of Spinning Particles M. Rivas, 2006-04-11 Classical

spin is described in terms of velocities and acceleration so that knowledge of advanced mathematics is not required. Written in the three dimensional notation of vector calculus it can be followed by undergraduate physics students although some notions of Lagrangian dynamics and group theory are required. It is intended as a general course at a postgraduate level for all purpose physicists. This book presents a unified approach to classical and quantum mechanics of spinning particles with symmetry principles as the starting point. A classical concept of an elementary particle is presented. The variational statements to deal with spinning particles are revisited. It is shown that by explicitly constructing different models symmetry principles are sufficient for the description of either classical or quantum mechanical elementary particles. Several spin effects are analyzed.

Theory of the Electron J. Keller, 2005-12-19 In the first century after its discovery the electron has come to be a fundamental element in the analysis of physical aspects of nature. This book is devoted to the construction of a deductive theory of the electron starting from first principles and using a simple mathematical tool geometric analysis. Its purpose is to present a comprehensive theory of the electron to the point where a connection can be made with the main approaches to the study of the electron in physics. The introduction describes the methodology. Chapter 2 presents the concept of space time action relativity theory and in chapter 3 the mathematical structures describing action are analyzed. Chapters 4, 5 and 6 deal with the theory of the electron in a series of aspects where the geometrical analysis is more relevant. Finally in chapter 7 the form of geometrical analysis used in the book is presented to elucidate the broad range of topics which are covered and the range of mathematical structures which are implicitly or explicitly included. The book is directed to two different audiences of graduate students and research scientists primarily to theoretical physicists in the field of electron physics as well as those in the more general field of quantum mechanics elementary particle physics and general relativity secondly to mathematicians in the field of geometric analysis.

Quantum Measurements and Decoherence M. Mensky, 2013-04-17 Quantum measurement is a measurement which is sufficiently precise for quantum effects to be essential. It was always one of the most important points in quantum mechanics because it most evidently revealed the difference between quantum and classical physics. Now quantum measurement is again under active investigation first of all because of the practical necessity of dealing with highly precise and complicated measurements. The nature of quantum measurement has become understood much better during this new period of activity the understanding being expressed by the concept of decoherence. This term means a physical process leading from a pure quantum state wave function of the system prior to the measurement to its state after the measurement which includes classical elements. More concretely decoherence occurs as a result of the entanglement of the measured system with its environment and results in the loss of phase relations between components of the wave function of the measured system. Decoherence is essentially nothing else than quantum measurement but considered from the point of view of its physical mechanism and resolved in time. The present book is devoted to the two concepts of quantum measurement and decoherence and to their interrelation especially

in the context of continuous quantum measurement *Vavilov-Cherenkov and Synchrotron Radiation* G.N. Afanasiev, 2006-01-17 Annotation This monograph is intended for the students of the third year and higher for postgraduates for the professional scientists both experimentalists and theoreticians dealing with Vavilov Cherenkov and synchrotron radiations Jacket *Black Holes, Gravitational Radiation and the Universe* B.R. Iyer, B. Bhawal, 2013-06-29 Our esteemed colleague C V Vishveshwara popularly known as Vishu turned sixty on 6th March 1998 His colleagues and well wishers felt that it would be appropriate to celebrate the occasion by bringing out a volume in his honour Those of us who have had the good fortune to know Vishu know that he is unique in a class by himself Having been given the privilege to be the volume s editors we felt that we should attempt something different in this endeavour Vishu is one of the well known relativists from India whose pioneer ing contributions to the studies of black holes is universally recognised He was a student of Charles Misner His Ph D thesis on the stability of the Schwarzschild black hole coordinate invariant characterisation of the stationary limit and event horizon for Kerr black holes and subsequent seminal work on quasi normal modes of black holes have passed on to become the starting points for detailed mathematical investigations on the nature of black holes He later worked on other aspects related to black holes and compact objects Many of these topics have matured over the last thirty years New facets have also developed and become current areas of vigorous research interest No longer are black holes ultracompact objects or event horizons mere idealisations of mathematical physicists but concrete entities that astrophysicists detect measure and look for Astrophysical evidence is mounting up steadily for black holes *Geometry and Topology in Hamiltonian Dynamics and Statistical Mechanics* Marco Pettini, 2007-06-14 It is a special pleasure for me to write this foreword for a remarkable book by a remarkable author Marco Pettini is a deep thinker who has spent many years probing the foundations of Hamiltonian chaos and statistical mechanics in particular phase transitions from the point of view of geometry and topology It is in particular the quality of mind of the author and his deep physical as well as mathematical insights which make this book so special and inspiring It is a must for those who want to venture into a new approach to old problems or want to use new tools for new problems Although topology has penetrated a number of elds of physics a broad participation of topology in the clarification and progress of fundamental problems in the above mentioned elds has been lacking The new perspectives topology gives to the above mentioned problems are bound to help in their clarification and to spread to other elds of science The sparsity of geometric thinking and of its use to solve fundamental problems when compared with purely analytical methods in physics could be relieved and made highly productive using the material discussed in this book It is unavoidable that the physicist reader may have then to learn some new mathematics and be challenged to a new way of thinking but with the author as a guide he is assured of the best help in achieving this that is presently available *Frontiers of Fundamental Physics* M. Barone, F. Selleri, 2012-12-06 The Olympia conference Frontiers of Fundamental Physics was a gathering of about hundred scientists who carry on their research in conceptually important

areas of physical science they do fundamental physics Most of them were physicists but also historians and philosophers of science were well represented An important fraction of the participants could be considered heretical because they disagreed with the validity of one or several fundamental assumptions of modern physics Common to all participants was an excellent scientific level coupled with a remarkable intellectual honesty we are proud to present to the readers this certainly unique book Alternative ways of considering fundamental matters should of course be vitally important for the progress of science unless one wanted to admit that physics at the end of the XXth century has already obtained the final truth a very unlikely possibility even if one accepted the doubtful idea of the existence of a final truth The merits of the Olympia conference should therefore not be judged a priori in a positive or in a negative way depending on one's refusal or acceptance respectively but considered after reading the actual of basic principles of contemporary science new proposals and evidences there presented They seem very important to us

Challenges to The Second Law of Thermodynamics Vladislav Capek, Daniel P.

Sheehan, 2006-03-30 The advance of scientific thought in ways resembles biological and geologic transformation long periods of gradual change punctuated by episodes of radical upheaval Twentieth century physics witnessed at least three major shifts relativity quantum mechanics and chaos theory as well many lesser ones Now at early in the 21 another shift appears imminent this one involving the second law of thermodynamics Over the last 20 years the absolute status of the second law has come under increased scrutiny more than during any other period its 180 year history Since the early 1980s roughly 50 papers representing over 20 challenges have appeared in the refereed scientific literature In July 2002 the first conference on its status was convened at the University of San Diego attended by 120 researchers from 25 countries QLSL2002 1 In 2003 the second edition of Le's and Rex's classic anthology on Maxwell demons appeared 2 further raising interest in this emerging field In 2004 the mainstream scientific journal Entropy published a special edition devoted to second law challenges 3 And in July 2004 an echo of QLSL2002 was held in Prague Czech Republic 4 Modern second law challenges began in the early 1980s with the theoretical proposals of Gordon and Denur Starting in the mid 1990s several proposals for experimentally testable challenges were advanced by Sheehan et al By the late 1990s and early 2000s a rapid succession of theoretical quantum mechanical challenges were being advanced by Capek et al

The Electron D. Hestenes, A.

Weingartshofer, 2012-12-06 techniques and raises new issues of physical interpretation as well as possibilities for deepening the theory 3 Barut contributes a comprehensive review of his own ambitious program in electron theory and quantum electrodynamics Barut's work is rich with ingenious ideas and the interest it provokes among other theorists can be seen in the critique by Grandy Cooperstock takes a much different approach to nonlinear field electron coupling which leads him to conclusions about the size of the electron 4 Capri and Bandrauk work within the standard framework of quantum electrodynamics Bandrauk presents a valuable review of his theoretical approach to the striking new photoelectric phenomena in high intensity laser experiments 5 Jung proposes a theory to merge the ideas of free free transitions and of

scattering chaos which is becoming increasingly important in the theoretical analysis of nonlinear optical phenomena For the last half century the properties of electrons have been probed primarily by scattering experiments at ever higher energies Recently however two powerful new experimental techniques have emerged capable of giving alternative experimental views of the electron We refer to 1 the confinement of single electrons for long term study and 2 the interaction of electrons with high intensity laser fields Articles by outstanding practitioners of both techniques are included in Part II of these Proceedings The precision experiments on trapped electrons by the Washington group quoted above have already led to a Nobel prize for the most accurate measurements of the electron magnetic moment

Clifford Algebras and their Applications in Mathematical Physics A. Micali, R. Boudet, J. Helmstetter, 2013-03-09 This volume contains selected papers presented at the Second Workshop on Clifford Algebras and their Applications in Mathematical Physics These papers range from various algebraic and analytic aspects of Clifford algebras to applications in for example gauge fields relativity theory supersymmetry and supergravity and condensed phase physics Included is a biography and list of publications of M. Riesz who next to Marcel Riesz has made valuable contributions to these topics This volume will be of interest to mathematicians working in the fields of algebra geometry or special functions to physicists working on quantum mechanics or supersymmetry and to historians of mathematical physics

Cosmological Pattern of Microphysics in the Inflationary Universe Maxim Y. Khlopov, Sergei G. Rubin, 2013-03-20 Modern cosmology is a quickly developing field of research New technical devices and tools supply the community with new experimental data measured with high accuracy The self consistent explanation of these data needs theoretical models that are based on hypothetical predictions of particle theory In their turn such predictions imply cosmology for their probe Specific studies of the cosmological consequences of particle theory linking them to their observable signatures are actual This boiling kettle of theoretical research and experimental efforts produces ideas that will be preserved for following generations The aim of this book is to acquaint the reader with some of these ideas finding nontrivial ways to probe the physical basis of modern cosmology An extensive review of the newest ideas in modern cosmology e.g. related with the development of the M-brane theory lies beyond the scope of our book which is aimed at providing a firmly established system of probes for these ideas linking their predictions to their possible experimental test We use the framework of inflationary paradigm to reveal the phenomena that can shed light on the physical origin of the observed Universe of its matter content and large scale structure The crucial role of quantum fluctuations in creation of our Universe and in possible features reflecting cosmological impact of microphysics is discussed These features are shown to be accessible to experimental test in the near future

Introduction to Soliton Theory: Applications to Mechanics Ligia Munteanu, Stefania Donescu, 2006-07-06 This monograph is planned to provide the application of the soliton theory to solve certain practical problems selected from the fields of solid mechanics fluid mechanics and biomechanics The work is based mainly on the authors research carried out at their home institutes and on some specified significant results existing in the

published literature The methodology to study a given evolution equation is to seek the waves of permanent form to test whether it possesses any symmetry properties and whether it is stable and solitonic in nature Students of physics applied mathematics and engineering are usually exposed to various branches of nonlinear mechanics especially to the soliton theory The soliton is regarded as an entity a quasi particle which conserves its character and interacts with the surroundings and other solitons as a particle It is related to a strange phenomenon which consists in the propagation of certain waves without attenuation in dissipative media This phenomenon has been known for about 200 years it was described for example by the Joule Verne s novel Les histoires de Jean Marie Cabidoulin d Hetzel but its detailed quantitative description became possible only in the last 30 years due to the exceptional development of computers The discovery of the physical soliton is attributed to John Scott Russell In 1834 Russell was observing a boat being drawn along a narrow channel by a pair of horses

Nonequilibrium Statistical Mechanics Byung Chan Eu, 2013-11-11 In this monograph nonequilibrium statistical mechanics is developed by means of ensemble methods on the basis of the Boltzmann equation the generic Boltzmann equations for classical and quantum dilute gases and a generalised Boltzmann equation for dense simple fluids The theories are developed in forms parallel with the equilibrium Gibbs ensemble theory in a way fully consistent with the laws of thermodynamics The generalised hydrodynamics equations are the integral part of the theory and describe the evolution of macroscopic processes in accordance with the laws of thermodynamics of systems far removed from equilibrium Audience This book will be of interest to researchers in the fields of statistical mechanics condensed matter physics gas dynamics fluid dynamics rheology irreversible thermodynamics and nonequilibrium phenomena

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